

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/577,390
Source: JFWO
Date Processed by STIC: 05/11/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/577, 390

CRF Edit Date: 05/11/2006

Edited by: DA

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



IFW

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

DATE: 05/11/2006
TIME: 13:13:59

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05092006\J577390.raw

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4 <110> APPLICANT: Chen, Bao-Lu
5     Hurst, Deborah
6     Lee, Sang Hoon
7     Long, Li
8     Lu, Xiaofeng
9     Luqman, Mohammad
10    Yabannavar, Asha
11    Zaror, Isabel
13 <120> TITLE OF INVENTION: Antagonist Anti-CD40 Monoclonal
14    Antibodies and Methods for Their Use
17 <130> FILE REFERENCE: PP20107.004 (282916)
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/577,390
C--> 19 <141> CURRENT FILING DATE: 2006-04-27
19 <150> PRIOR APPLICATION NUMBER: 60/565,710
20 <151> PRIOR FILING DATE: 2004-04-27
22 <150> PRIOR APPLICATION NUMBER: 60/525,579
23 <151> PRIOR FILING DATE: 2003-11-26
25 <150> PRIOR APPLICATION NUMBER: 60/517,337
26 <151> PRIOR FILING DATE: 2003-11-04
28 <160> NUMBER OF SEQ ID NOS: 12
30 <170> SOFTWARE: FastSEQ for Windows Version 4.0
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 720
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Coding sequence for light chain of 12.12 human
39    anti-CD40 antibody
W--> 41 <221> NAME/KEY: CDS
42 <222> LOCATION: (1)...(720)
W--> 44 <400> 1
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46 Met Ala Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu Trp Val Ser
47    1           5           10          15
49 gga tcc agt ggg gat att gtg atg act cag tct cca ctc tcc ctg acc      96
50 Gly Ser Ser Gly Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Thr
51    20          25          30
53 gtc acc cct gga gag ccg gcc tcc atc tcc tgc agg tcc agt cag agc  144
54 Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser
55    35          40          45
57 ctc ctg tat agt aat gga tac aac tat ttg gat tgg tac ctg cag aag  192
58 Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys
59    50          55          60

```

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PATENT APPLICATION: US/10/577,390

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61	cca	ggg	cag	tct	cca	cag	gtc	ctg	atc	tct	ttg	ggt	tct	aat	cgg	gcc	240
62	Pro	Gly	Gln	Ser	Pro	Gln	Val	Leu	Ile	Ser	Leu	Gly	Ser	Asn	Arg	Ala	
63	65				70				75					80			
65	tcc	ggg	gtc	cct	gac	agg	ttc	agt	ggc	agt	gga	tca	ggc	aca	gat	ttt	288
66	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	
67					85				90					95			
69	aca	ctg	aaa	atc	agc	aga	gtg	qaa	gct	qaa	gat	gtt	ggg	gtt	tat	tac	336
70	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	
71					100				105					110			
73	tgc	atg	caa	gct	cga	caa	act	cca	ttc	act	ttc	ggc	cct	ggg	acc	aaa	384
74	Cys	Met	Gln	Ala	Arg	Gln	Thr	Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	
75					115				120					125			
77	gtg	gat	atc	aga	cga	act	gtg	gct	gca	cca	tct	gtc	ttc	atc	ttc	ccg	432
78	Val	Asp	Ile	Arg	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	
79					130				135					140			
81	cca	tct	gat	gag	cag	ttg	aaa	tct	gga	act	gcc	tct	gtt	gtg	tgc	ctg	480
82	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	
83	84	145			150				155					160			
85	ctg	aat	aac	ttc	tat	ccc	aga	gag	gcc	aaa	gta	cag	tgg	aag	gtg	gat	
86	Leu	Asn	Asn	Phe	Tyr	Phe	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	
87					165				170					175			
89	aac	gcc	ctc	caa	tcg	ggt	aac	tcc	cag	qag	agt	gtc	aca	qag	cag	qac	576
90	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	
91					180				185					190			
93	agc	aag	gac	agc	acc	tac	agc	ctc	agc	acc	ctg	acg	ctg	agc	aaa	624	
94	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	
95					195				200					205			
97	gca	gac	tac	gag	aaa	cac	aaa	gtc	tac	gcc	tgc	gaa	gtc	acc	cat	cag	672
98	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	
99					210				215					220			
101	ggc	ctg	agc	tcg	ccc	gtc	aca	aag	agc	ttc	aac	agg	gga	gag	tgt	tag	720
102	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys	*	
103	225				230				235								
107	<210>	SEQ ID NO:	2														
108	<211>	LENGTH:	239														
109	<212>	TYPE:	PRT														
110	<213>	ORGANISM:	Artificial Sequence														
112	<220>	FEATURE:															
113	<223>	OTHER INFORMATION:	Light chain of 12.12 human anti-CD40 antibody														
115	<400>	SEQUENCE:	2														
116	Met	Ala	Leu	Pro	Ala	Gln	Leu	Leu	Gly	Leu	Leu	Met	Leu	Trp	Val	Ser	
117	1				5				10					15			
118	Gly	Ser	Ser	Gly	Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Thr	
119					20				25					30			
120	Val	Thr	Pro	Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	
121					35				40					45			
122	Leu	Leu	Tyr	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	
123					50				55					60			
124	Pro	Gly	Gln	Ser	Pro	Gln	Val	Leu	Ile	Ser	Leu	Gly	Ser	Asn	Arg	Ala	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

DATE: 05/11/2006
TIME: 13:13:59

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05092006\J577390.raw

125	65	70	75	80													
126	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Thr	Asp	Phe			
127																	
128	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	
129																	
130	Cys	Met	Gln	Ala	Arg	Gln	Thr	Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	
131																	
132	Val	Asp	Ile	Arg	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	
133																	
134	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	
135																	
136	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	
137																	
138	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	
139																	
140	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	
141																	
142	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	
143																	
144	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys		
145																	
146	225		230		235												
147	<210>	SEQ	ID	NO:	3												
148	<211>	LENGTH:	2016														
149	<212>	TYPE:	DNA														
150	<213>	ORGANISM:	Artificial Sequence														
151	<220>	FEATURE:															
152	<223>	OTHER INFORMATION:	Coding sequence for heavy chain of 12.12 human														
153			anti-CD40 antibody (with introns)														
154	<400>	SEQUENCE:	3														
155																	
156	atg	gag	ttt	ggg	ctg	agc	tgg	gtt	ttc	ctt	gtt	att	tta	aga	ggg	48	
157	gtc	cag	tgt	cag	gtg	cag	ttg	gtg	gag	tct	ggg	gga	ggc	gtg	gtc	cag	96
158	cct	ggg	agg	tcc	ctg	aga	ctc	tcc	tgt	gca	gcc	tct	gga	ttc	acc	ttc	144
159	agt	agt	tat	ggc	atg	cac	tgg	gtc	cgc	cag	gct	cca	ggc	aag	ggg	ctg	192
160	gag	tgg	gtg	gca	gtt	ata	tca	tat	gag	gaa	agt	aat	aga	tac	cat	gca	240
161	gac	tcc	gtg	aag	ggc	cga	ttc	acc	atc	tcc	aga	gac	aat	tcc	aag	atc	288
162	acg	ctg	tat	ctg	caa	atg	aac	agc	ctc	aga	act	gag	gac	acg	gct	gtg	336
163	tat	tac	tgt	gcg	aga	gat	ggg	ggt	ata	gca	gca	cct	ggg	cct	gac	tac	384
164	tgg	ggc	cag	gga	acc	ctg	gtc	acc	tcc	tca	gca	agt	acc	aag	ggc	432	
165	cca	tcc	gtc	tcc	ccc	ctg	gcg	ccc	gct	agc	aag	agc	acc	tct	ggg	ggc	480
166	aca	gca	gtc	gtg	ggc	tgc	ctg	aag	gac	tac	ttc	ccc	gaa	ccg	gtg	528	
167	acg	gtg	tgc	tgg	aaa	tca	ggc	gcc	ctg	acc	agg	ggc	gtg	cac	acc	ttc	576
168	ccg	gct	gtc	cta	cag	tcc	tca	gga	ctc	tac	ttc	ccc	gaa	ccg	gtg	624	
169	acc	gtg	ccc	tcc	agg	ggc	tgc	atc	acc	tg	atc	ttc	atc	tgc	aat	gtg	672
170	aat	cac	aag	ccc	agg	acc	acc	aag	gtg	gac	aag	aga	gtt	gg	agg	720	
171	cca	gca	cag	gga	ggg	agg	gtg	tct	gtc	acc	cag	acc	ttc	ccc	act	cat	768
172	tgc	ctg	gac	tcc	ccc	agg	ctg	atc	acc	tac	ttc	ccc	act	cat	ggc	816	
173	gct	cag	gga	gag	ggt	ctt	ctg	gtc	gt	ttt	tcc	cca	ggc	tct	ggg	cag	864
174	agg	ccc	cgt	ctg	cct	ttt	cac	ccg	gag	gcc	tct	gcc	ccg	ccc	act	ttc	912
175	cag	gct	agg	ttt	cca	ccc	agg	ttc	cca	ggc	tct	ggg	cag	ggc	agg	tgc	960
176	cgc	gtc	ttt	cca	ggc	ttt	cca	ggc	tct	ggg	cag	ggc	agg	ttc	cca	ggc	
177	ttt	cca	ggc	ttt	cca	ggc	ttt	cca	ggc	tct	ggg	cag	ggc	agg	tgc	cca	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

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TIME: 13:13:59

Input Set : A:\pto.da.txt
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178	tgg	gct	cag	acc	tgc	caa	gag	cca	tat	ccg	gga	gga	ccc	tgc	ccc	tga	1008
179	cct	aag	ccc	acc	cca	aag	gcc	aaa	ctc	tcc	act	ccc	tca	gtc	cg	aca	1056
180	cct	tct	ctc	ctc	cca	gat	tcc	agt	aac	tcc	caa	tct	tct	ctc	tgc	aga	1104
181	gcc	caa	atc	ttg	tga	caa	aac	tca	cac	atg	ccc	acc	gtg	ccc	agg	taa	1152
182	gcc	agc	cca	ggc	ctc	gcc	ctc	cag	ctc	aag	gcf	gga	cag	gtg	ccc	tag	1200
183	agt	agc	ctg	cat	cca	ggg	aca	ggc	ccc	agc	cg	gtg	ctg	aca	cgt	cca	1248
184	cct	cca	tct	ctt	cct	cag	cac	ctg	aac	tcc	tgg	ggg	gac	cgt	cag	tct	1296
185	tcc	tct	tcc	ccc	caa	aaa	cca	agg	aca	ccc	tca	tga	tct	ccc	gga	ccc	1344
186	ctg	agg	tca	cat	gcf	tgg	tgg	acg	tga	gcc	acg	aag	acc	ctg	agg		1392
187	tca	agt	tca	act	ggt	acg	tgg	acg	gcf	tgg	agg	tgc	ata	atg	cca	aga	1440
188	caa	agc	cgc	ggg	agg	agc	agt	aca	aca	gca	cgt	acc	gtg	tgg	tca	gcf	1488
189	tcc	tca	ccg	tcc	tgc	acc	agg	act	ggc	tga	atg	gca	agg	agt	aca	agt	1536
190	gca	agg	tct	cca	aca	aag	ccc	tcc	cag	ccc	cca	tgc	aga	aaa	cca	tct	1584
191	cca	aag	cca	aag	gtg	gga	ccc	gtg	ggg	tgc	gag	ggc	cac	atg	gac	aga	1632
192	ggc	cg	ctc	ggc	cca	ccc	tct	gcc	ctg	aga	gtg	acc	gt	gt	gt	cca	1680
193	tct	gtc	cct	aca	ggg	cag	ccc	cga	gaa	cca	cag	gtg	tac	acc	ctg	ccc	1728
194	cca	tcc	cg	gag	gag	atg	acc	aag	aac	cag	gtc	agc	ctg	acc	tgc	ctg	1776
195	gtc	aaa	ggc	tcc	tat	ccc	agc	gac	atc	gcc	gtg	gag	tgg	gag	agc	aat	1824
196	ggg	cag	cg	gag	aac	aac	tac	aag	acc	acg	cct	ccc	gtg	ctg	gac	tcc	1872
197	gac	ggc	tcc	tcc	tcc	tat	agc	aag	ctc	acc	gtg	gac	aag	agc	agg		1920
198	tgg	cag	cag	ggg	aac	gtc	tcc	tca	tgc	tcc	gtg	atg	cat	gag	gct	ctg	1968
199	cac	aac	cac	tac	acg	cag	aag	agc	ctc	tcc	ctg	tct	ccg	ggt	aaa	tga	2016
202	<210>	SEQ ID NO:	4														
203	<211>	LENGTH:	469														
204	<212>	TYPE:	PRT														
205	<213>	ORGANISM:	Artificial Sequence														
207	<220>	FEATURE:															
208	<223>	OTHER INFORMATION:	Heavy chain of 12.12 human anti-CD40 antibody														
210	<400>	SEQUENCE:	4														
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212	1				5					10					15		
213	Val	Gln	Cys	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	
214						20				25					30		
215	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	
216							35			40				45			
217	Ser	Ser	Tyr	Gly	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	
218							50			55				60			
219	Glu	Trp	Val	Ala	Val	Ile	Ser	Tyr	Glu	Glu	Ser	Asn	Arg	Tyr	His	Ala	
220							65			70				75		80	
221	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Ile	
222							85			90				95			
223	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Thr	Glu	Asp	Thr	Ala	Val	
224							100			105				110			
225	Tyr	Tyr	Cys	Ala	Arg	Asp	Gly	Gly	Ile	Ala	Ala	Pro	Gly	Pro	Asp	Tyr	
226							115			120				125			
227	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	
228							130			135				140			
229	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ala	Ser	Lys	Ser	Thr	Ser	Gly	Gly	
230							145			150				155		160	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

DATE: 05/11/2006
TIME: 13:13:59

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05092006\J577390.raw

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231 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
232           165          170          175
233 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
234           180          185          190
235 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
236           195          200          205
237 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
238           210          215          220
239 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
240 225           230          235          240
241 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
242           245          250          255
243 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
244           260          265          270
245 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
246           275          280          285
247 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
248           290          295          300
249 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
250 305           310          315          320
251 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
252           325          330          335
253 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
254           340          345          350
255 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
256           355          360          365
257 Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
258           370          375          380
259 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
260 385           390          395          400
261 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
262           405          410          415
263 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
264           420          425          430
265 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
266           435          440          445
267 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
268           450          455          460
269 Leu Ser Pro Gly Lys
270 465
273 <210> SEQ ID NO: 5
274 <211> LENGTH: 469
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Heavy chain of variant of 12.12 human anti-CD40
280 antibody
282 <400> SEQUENCE: 5
283 Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Arg Gly

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/577,390

DATE: 05/11/2006

TIME: 13:14:00

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05092006\J577390.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:44 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:542 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:643 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11

**Raw Sequence Listing before editing,
for reference only**



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

DATE: 05/09/2006
TIME: 11:14:57

Input Set : A:\seqlst.txt
Output Set: N:\CRF4\05092006\J577390.raw

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4 <110> APPLICANT: Chen, Bao-Lu
5     Hurst, Deborah
6     Lee, Sang Hoon
7     Long, Li
8     Lu, Xiaofeng
9     Luqman, Mohammad
10    Yabannavar, Asha
11    Zaror, Isabel
13 <120> TITLE OF INVENTION: Antagonist Anti-CD40 Monoclonal
14    Antibodies and Methods for Their Use
17 <130> FILE REFERENCE: PP20107.004 (282916)
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/577,390
C--> 19 <141> CURRENT FILING DATE: 2006-04-27
19 <150> PRIOR APPLICATION NUMBER: 60/565,710
20 <151> PRIOR FILING DATE: 2004-04-27
22 <150> PRIOR APPLICATION NUMBER: 60/525,579
23 <151> PRIOR FILING DATE: 2003-11-26
25 <150> PRIOR APPLICATION NUMBER: 60/517,337
26 <151> PRIOR FILING DATE: 2003-11-04
28 <160> NUMBER OF SEQ ID NOS: 12
30 <170> SOFTWARE: FastSEQ for Windows Version 4.0

```

Does Not Comply
 Corrected Diskette Needed
 (pg-2)

ERRORED SEQUENCES

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717 <210> SEQ ID NO: 12
718 <211> LENGTH: 277
719 <212> TYPE: PRT
720 <213> ORGANISM: Homo sapiens
722 <400> SEQUENCE: 12
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724   1           5           10          15
725 Ala Val His Pro Glu Pro Pro Thr Ala Cys Arg Glu Lys Gln Tyr Leu
726      20          25          30
727 Ile Asn Ser Gln Cys Cys Ser Leu Cys Gln Pro Gly Gln Lys Leu Val
728      35          40          45
729 Ser Asp Cys Thr Glu Phe Thr Glu Thr Glu Cys Leu Pro Cys Gly Glu
730      50          55          60
731 Ser Glu Phe Leu Asp Thr Trp Asn Arg Glu Thr His Cys His Gln His
732      65          70          75          80
733 Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
734      85          90          95
735 Ser Glu Thr Asp Thr Ile Cys Thr Cys Glu Glu Gly Trp His Cys Thr

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/577,390

DATE: 05/09/2006
TIME: 11:14:57

Input Set : A:\seqlst.txt
Output Set: N:\CRF4\05092006\J577390.raw

736 100 105 110
737 Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
738 115 120 125
739 Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
740 130 135 140
741 Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
742 145 150 155 160
743 Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
744 165 170 175
745 Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Pro Gln Asp Arg Leu
746 180 185 190
747 Arg Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile
748 195 200 205
749 Leu Leu Val Leu Val Phe Ile Lys Lys Val Ala Lys Lys Pro Thr Asn
750 210 215 220
751 Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
752 225 230 235 240
753 Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
754 245 250 255
755 Gly Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile Ser
756 260 265 270
757 Val Gln Glu Arg Gln
758 275

E--> 760 12
766 RTA01/2168223v1

deleted

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/577,390

DATE: 05/09/2006

TIME: 11:14:58

Input Set : A:\seqlst.txt

Output Set: N:\CRF4\05092006\J577390.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:44 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:542 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:643 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:760 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12